

THIN FILM MOTORS

ABSTRACT

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Apparatus for an electrostatic spindle motor is disclosed. More particularly, a stator having a first plurality of surface electrodes is spaced apart from a rotor having a second plurality of surface electrodes for capacitive coupling. At least one of the first plurality of surface electrodes and the second plurality of surface electrodes is configured to conduct electrical charge. A source is configured to provide electrical charge to the at least one of the first plurality of surface electrodes and the second plurality of surface electrodes and to alternate electrical polarity. The rotor and the stator may comprise bearing surfaces to provide a fluid dynamic bearing.

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